

Humangenetik Human Genetics Génétique humaine

Editorial Board

P. E. Becker, Göttingen
A. G. Motulsky, Seattle
U. W. Schnyder, Heidelberg
F. Vogel, Heidelberg
G. G. Wendt, Marburg

Advisory Board

G. Anders, Groningen
H. Baitsch, Ulm
A. G. Bearn, New York
H. Bickel, Heidelberg
N. P. Bochkov, Moskau
D. Bootsma, Rotterdam
K. H. Degenhardt, Frankfurt/M.
W. Fuhrmann, Giessen
H. Grüneberg, London
B. Hassenstein, Freiburg i. Br.

K. Hirschhorn, New York
W. Jaeger, Heidelberg
D. Klein, Genève
E. Krah, Heidelberg
W. Krone, Ulm
H. Lehmann, Cambridge
W. Lenz, Münster/W.
V. A. McKusick, Baltimore
M. Mikkelsen, Glostrup
H. Nachtsheim, Berlin

K. Patau, Madison
A. Prader, Zürich
H. Ritter, Tübingen
C. Ropartz, Bois-Guillaume
W. Schmid, Zürich
W. J. Schull, Ann Arbor
H. G. Schwarzacher, Wien
C. Stern, Berkeley
H. E. Sutton, Austin
U. Wolf, Freiburg i. Br.

Band 29 · 1975



Springer-Verlag · Berlin · Heidelberg · New York

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproduction, also in microform, is transferred to the publisher.

The use in this journal of registered or trade names, trademarks etc. without special acknowledgement does not imply that such names, as defined by the relevant protection laws, may be regarded as unprotected and thus free for general use.

Alle Rechte, einschließlich das der Übersetzung in fremde Sprachen und das der fotomechanischen Wiedergabe oder einer sonstigen Vervielfältigung, auch in Mikroform, vorbehalten. Jedoch wird gewerblichen Unternehmen für den innerbetrieblichen Gebrauch nach Maßgabe des zwischen dem Börsenverein des Deutschen Buchhandels e.V. und dem Bundesverband der Deutschen Industrie abgeschlossenen Rahmenabkommens die Anfertigung einer fotomechanischen Vervielfältigung gestattet. Wenn für diese Zeitschrift kein Pauschalabkommen mit dem Verlag vereinbart worden ist, ist eine Wertmarke im Betrage von DM 0,40 pro Seite zu verwenden.

Der Verlag läßt diese Beträge den Autorenverbänden zufließen.

Die Wiedergabe von Gebrauchsnamen, Handelsnamen, Warenbezeichnungen usw. in dieser Zeitschrift berechtigt auch ohne besondere Kennzeichnung nicht zu der Annahme, daß solche Namen im Sinne der Warenzeichen- und Markenschutz-Gesetzgebung als frei zu betrachten wären und daher von jedermann benutzt werden dürften.

Springer-Verlag Berlin · Heidelberg · New York

Printed in Germany by J. P. Peter, Gebr. Holstein, Rothenburg o. d. Tbr.

© by Springer-Verlag Berlin · Heidelberg 1975

Contents

Original Investigations · Short Communications

Agarwal, D. P., Srivastava, L. M., Benkmann, H. G., Goedde, H. W., Grünwald, P.: Studies on the Polymorphism of C3, Tf and Bg in Down's Syndrome and Other Diseases	23
Armendares, S., Salamanca, F., Cantú, J. M., Castillo, V. del, Nava, S., Dominguez-de-la-Piedra, E., Cortés-Gallegos, V., Gallegos, A., Cervantes, C., Parra, A.: Familial True Hermaphroditism in Three Siblings. Clinical, Cytogenetic, Histological and Hormonal Studies	99
Au, W., s. Soukup, S. W.	319
Bargagna, M., Domenici, R., Morali, A.: Red Cell Esterase-D Polymorphism in the Population of Tuscany	251
Beek, B., Obe, G.: The Human Leukocyte Test System. VI. The Use of Sister Chromatid Exchanges as Possible Indicators for Mutagenic Activities	127
Benirschke, K., s. Francke, U., <i>et al.</i>	243
Benkmann, H. G., s. Agarwal, D. P., <i>et al.</i>	23
Boivin, P., s. Kahn, A., <i>et al.</i>	271
Borniche, P., s. Turleau, C., <i>et al.</i>	233
Brissaud, P. E., s. Turleau, C., <i>et al.</i>	233
Brøgger, A., s. Myhra, S.	183
Brown, M. J., s. Potter, A. M., <i>et al.</i>	223
Bryant, E. M., s. Hoehn, H., <i>et al.</i>	285
Burgerhout, W.: Identification of Interspecific Translocation Chromosomes in Human-Chinese Hamster Hybrid Cells	229
Canning, N., s. Ray, M., <i>et al.</i>	29
Cantú, J. M., s. Armendares, S., <i>et al.</i>	99
Carrera, A., s. Vives-Corróns, J. L., <i>et al.</i>	291
Castillo, V. del, s. Armendares, S., <i>et al.</i>	99
Centerwall, W. R., Mayeski, C. A., Cha, C. C.: Trisomy 9q—. A Variant of the 9p Trisomy Syndrome	91
Cervantes, C., s. Armendares, S., <i>et al.</i>	99
Cha, C. C., s. Centerwall, W. R., <i>et al.</i>	91
Chakraborty, R.: Power of Assaying Inbreeding through Sampling of Phenotypes and Mating Types	217
Chang, C. C., s. Sun, N. C., <i>et al.</i>	351
Chavin-Colin, F., s. Turleau, C., <i>et al.</i>	233
Chu, E. H. Y., s. Sun, N. C., <i>et al.</i>	351
Cochet, C., s. Rebourcet, R., <i>et al.</i>	337
Cong, N. van, s. Rebourcet, R., <i>et al.</i>	337
Cooke, P., s. Seabright, M., <i>et al.</i>	35
Corbo, R. M., s. Palmarino, R., <i>et al.</i>	349
Cortés-Gallegos, V., s. Armendares, S., <i>et al.</i>	99
Creutzfeldt, W., s. Köbberling, J., <i>et al.</i>	111
Cristofori, G., s. Palmarino, R., <i>et al.</i>	349
Domenici, R., s. Bargagna, M., <i>et al.</i>	251
Dominguez-de-la-Piedra, E., s. Armendares, S., <i>et al.</i>	99
Fantel, A. G., s. Hoehn, H., <i>et al.</i>	285
Feichtinger, C., s. Schröcksnadel, H., <i>et al.</i>	329
Finaz, C., s. Rebourcet, R., <i>et al.</i>	337
Francke, U., Benirschke, K., Jones, O. W.: Prenatal Diagnosis of Trisomy 9	243
Frézal, J., s. Rebourcet, R., <i>et al.</i>	337
Fujimori, R., s. Yamamoto, M., <i>et al.</i>	9
Galand, C., s. Kahn, A., <i>et al.</i>	271
Gallegos, A., s. Armendares, S., <i>et al.</i>	99
Galperin-Lemaître, H., Kirsch-Volders, M., Levi, S.: Fragmentation of Purified Mam-malian DNA Molecules by Ultrasound below Human Therapeutic Doses	61

Ganesan, J., Lie-Injo Luan Eng, Ong Beng Poon: Haptoglobin, Transferrin and Serum Albumin Variants in the Dayaks of Sarawak	281
Geisler, M., s. Kleinebrecht, J.	15
Ghosh, P. K., Singh, I. P.: Morphological Variability of the Human Chromosomes in Two Indian Populations — Rajputs and Punjabis	67
Goedde, H. W., s. Agarwal, D. P., <i>et al.</i>	23
Grosse, K.-P., Schwanitz, G., Singer, H., Wieczorek, V.: Partial Trisomy 10p	141
Grouchy, J. de, s. Reboucret, R., <i>et al.</i>	337
Grouchy, J. de, s. Turleau, C., <i>et al.</i>	233
Grünwald, P., s. Agarwal, D. P., <i>et al.</i>	23
Grzeschik, K.-H., Kim, My. A., Johannsmann, R.: Late Replicating Bands of Human Chromosomes Demonstrated by Fluorochrome and Giemsa Staining	41
Guttman, R.: Familial Correlations in the Judgment of Numerosity	161
Habedank, M., Kampe, G.: Familial Translocation t(3p—; 21q+) Associated with Both Down's and Sturge-Weber's Syndrome in Unbalanced State	207
Hamerton, J. L., s. Ray, M., <i>et al.</i>	29
Harada, S., Itoh, M., Misawa, S.: Red Cell Uridine Monophosphate Kinase Polymorphism in Japanese	255
Harzer, K., Recke, A. S.: Sulfatide Excreting Heterozygous Carrier of Juvenile Metachromatic Leukodystrophy or Asymptomatic Patient of Adult Metachromatic Leukodystrophy	299
Hayashi, K., Schmid, W.: The Rate of Sister Chromatid Exchanges Parallel to Spontaneous Chromosome Breakage in Fanconi's Anemia and to Trenimon-Induced Aberrations in Human Lymphocytes and Fibroblasts	201
Herha, J., s. Obe, G.	191
Hoehn, H., Bryant, E. M., Fantel, A. G., Martin, G. M.: Cultivated Cells from Diagnostic Amniocentesis in Second Trimester Pregnancies. III. The Fetal Urine as a Potential Source of Clonable Cells	285
Ikeuchi, T., s. Kaneko, Y., <i>et al.</i>	1
Itoh, M., s. Harada, S., <i>et al.</i>	255
Ito, T., s. Yamamoto, M., <i>et al.</i>	9
Johannsmann, R., s. Grzeschik, K.-H., <i>et al.</i>	41
Jones, O. W., s. Francke, U., <i>et al.</i>	243
Kahn, A., Marie, J., Galand, C., Boivin, P.: Molecular Mechanism of Erythrocyte Pyruvate Kinase Deficiency	271
Kahn, A., s. Vives-Corrons, J. L., <i>et al.</i>	291
Kamimura, K., s. Yamamoto, M., <i>et al.</i>	9
Kampe, G., s. Habedank, M.	207
Kaneko, Y., Ikeuchi, T., Sasaki, M., Satake, Y., Kuwajima, S.: A Male Infant with Monosomy 21	1
Kattermann, R., s. Köbberling, J., <i>et al.</i>	111
Kim, My. A., s. Grzeschik, K.-H., <i>et al.</i>	41
Kirsch-Volders, M., s. Galperin-Lemaître, H., <i>et al.</i>	61
Kleinebrecht, J., Geisler, M.: Histological Analysis of Spontaneous Abortions with Trisomy 2: First Description of an Embryo	15
Köbberling, J., Willms, B., Kattermann, R., Creutzfeldt, W.: Lipodystrophy of the Extremities. A Dominantly Inherited Syndrome Associated with Lipatrophic Diabetes	111
Kuwajima, S., s. Kaneko, Y., <i>et al.</i>	1
Levi, S., s. Galperin-Lemaître, H., <i>et al.</i>	61
Lie-Injo Luan Eng, s. Ganesan, J., <i>et al.</i>	281
Lucarelli, P., s. Palmarino, R., <i>et al.</i>	349
Marie, J., s. Kahn, A., <i>et al.</i>	271
Martin, G. M., s. Hoehn, H., <i>et al.</i>	285
Mattevi, M. S., Salzano, F. M.: Effect of Sex, Age and Cultivation Time on Number of Satellites and Acrocentric Associations in Man	265
Mayeski, C. A., s. Centerwall, W. R., <i>et al.</i>	91
Menini, C., s. Palmarino, R., <i>et al.</i>	349

Migeon, B. R., s. Romeo, G.	165
Minami, R., Olek, K., Wardenbach, P.: Cystinuric Heterozygotes and Cystine-Loading	145
Minami, R., Olek, K., Wardenbach, P.: Statistical Evaluation of a New Method to Detect Carriers of Phenylketonuria	151
Misawa, S., s. Harada, S., <i>et al.</i>	255
Morali, A., s. Bargagna, M., <i>et al.</i>	251
Myhra, S., Brøgger, A.: Interchromosomal DNA-Containing Fibres in Human Cells . .	183
Na-Nakorn, S., s. Pootrakul, S., <i>et al.</i>	121
Nava, S., s. Armendares, S., <i>et al.</i>	99
Nielsen, J.: Chromosome Mosaicism in a Population Sample	155
Obe, G., Herha, J.: Chromosomal Damage in Chronic Alcohol Users	191
Obe, G., s. Beek, B.	127
Olek, K., s. Minami, R., <i>et al.</i>	145, 151
Osti, L., s. Palmarino, R., <i>et al.</i>	349
Palmarino, R., Scacchi, R., Corbo, R. M., Lucarelli, P., Salsini, G., Cristofori, G., Osti, L., Menini, C., Vullo, C.: Identification of a Rare Allele of Phosphoglucomutase (PGM ₁) in an Italian Family	349
Parra, A., s. Armendares, S., <i>et al.</i>	99
Phillips, R. B.: Inheritance of Acrocentric Association Patterns	309
Poon, O. B., s. Ganesan, J., <i>et al.</i>	281
Pootrakul, S., Sapprapa, S., Wasi, P., Na-Nakorn, S., Suwanik, R.: Haemoglobin Synthesis in 28 Obligatory Cases for α -Thalassemia Traits	121
Potter, A. M., Sharp, J. C., Brown, M. J., Sokol, R. J.: Structural Rearrangements Associated with the Ph ¹ Chromosome in Chronic Granulocytic Leukaemia	223
Prîşcu, R., Sichiţiu, S.: Types of Enzymatic Overdosing in Trisomy 21: Erythrocytic Superoxide Dismutase-AJ and Phosphoglucomutase	79
Rathenberg, R.: Cytogenetic Effects of Cyclophosphamide on Mouse Spermatogonia .	135
Ray, M., Canning, N., Hamerton, J. L.: The Human Complement after Trypsin Pre-treatment as Compared to the Paris Standard	29
Rebourcet, R., Cong, N. van, Frézal, J., Finaz, C., Cochet, C., Grouchy, J. de: Chromosome No. 1 of Man and Chimpanzee: Identity of Gene Mapping for Three Loci: PPH, PGM ₁ , and Pep-C	337
Recke, A. S., s. Harzer, K.	299
Repressé, G., s. Turleau, C., <i>et al.</i>	233
Romeo, G., Migeon, B. R.: Stability of X Chromosomal Inactivation in Human Somatic Cells Transformed by SV-40	165
Roubin, M., s. Turleau, C., <i>et al.</i>	233
Rozman, C., s. Vives-Corróns, J. L., <i>et al.</i>	291
Safar, A., s. Turleau, C., <i>et al.</i>	233
Salamanca, F., s. Armendares, S., <i>et al.</i>	99
Salsini, G., s. Palmarino, R., <i>et al.</i>	349
Salzano, F. M., s. Mattevi, M. S.	265
Sapprapa, S., s. Pootrakul, S., <i>et al.</i>	121
Sasaki, M., s. Kaneko, Y., <i>et al.</i>	1
Satake, Y., s. Kaneko, Y., <i>et al.</i>	1
Saxena, M. B., s. Seth, S.	341
Scacchi, R., s. Palmarino, R., <i>et al.</i>	349
Scheminzky, C., s. Schröcksnadel, H., <i>et al.</i>	329
Schmiady, H., Wegner, R.-D., Sperling, K.: Relative DNA Content of Human Euchromatin and Heterochromatin after G, C and Giemsa 11 Banding	85
Schmid, W., s. Hayashi, K.	201
Schröcksnadel, H., Feichtinger, C., Scheminzky, C.: Trisomy 4p14 \rightarrow 4pter with Translocation t(4;15) (p14;p12) in the Father	329
Schwanitz, G., s. Grosse, K.-P., <i>et al.</i>	141
Seabright, M., Cooke, P., Wheeler, M.: Variation in Trypsin Banding at Different Stages of Contraction in Human Chromosomes and the Definition, by Measurement, of the "Average" Karyotype	35

Seth, S., Seth, P. K., Saxena, M. B.: Genetic Variations in Primates. Red Cell Enzymes and Serum Proteins in <i>Macaca mulatta</i>	341
Seth, P. K., s. Seth, S.	341
Sharp, J. C., s. Potter, A. M., <i>et al.</i>	223
Sichitiu, S., s. Prişcu, R.	79
Singer, H., s. Grosse, K.-P., <i>et al.</i>	141
Singh, I. P., s. Ghosh, P. K.	67
Sokol, R. J., s. Potter, A. M., <i>et al.</i>	223
Soukup, S. W., Au, W.: The Effect of Ethylnitrosourea on Chromosome Aberrations <i>in vitro</i> and <i>in vivo</i>	319
Sperling, K., s. Schmiady, H., <i>et al.</i>	85
Srivastava, L. M., s. Agarwal, D. P., <i>et al.</i>	23
Sun, N. C., Chang, C. C., Chu, E. H. Y.: A Rapid Electrophoretic Technique for Human and Chinese Hamster Galactokinase	351
Suwanik, R., s. Pootrakul, S., <i>et al.</i>	121
Triginer, J., s. Vives-Corrons, J. L., <i>et al.</i>	291
Turleau, C., Grouchy, J. de, Chavin-Colin, F., Roubin, M., Brissaud, P. E., Repessé, G., Safar, A., Borniche, P.: Partial Trisomy 9q: A New Syndrome	233
Vives-Corrons, J. L., Rozman, C., Kahn, A., Carrera, A., Triginer, J.: Glucose Phosphate Isomerase Deficiency with Hereditary Hemolytic Anemia in a Spanish Family: Clinical and Familial Studies	291
Vullo, C., s. Palmarino, R., <i>et al.</i>	349
Wardenbach, P., s. Minami, R., <i>et al.</i>	145, 151
Wasi, P., s. Pootrakul, S., <i>et al.</i>	121
Watanabe, G., s. Yamamoto, M., <i>et al.</i>	9
Wegner, R.-D., s. Schmiady, H., <i>et al.</i>	85
Wheeler, M., s. Seabright, M., <i>et al.</i>	35
Wieczorek, V., s. Grosse, K.-P., <i>et al.</i>	141
Willms, B., s. Köbberling, J., <i>et al.</i>	111
Yamamoto, M., Fujimori, R., Ito, T., Kamimura, K., Watanabe, G.: Chromosome Studies in 500 Induced Abortions	9

Clinical Case Reports

Heydorn, K., Damsgaard, E., Horn, N., Mikkelsen, M., Tygstrup, I., Vestermark, S., Weber, J.: Extra-Hepatic Storage of Copper. A Male Foetus Suspected of Menkes' Disease	171
Hays, T., Humbert, J. R., Peakman, D. C., Hutter, J. J., Morse, H. G., Robinson, A., August, C. S.: Missing Y Chromosome in Juvenile Chronic Myelogenous Leukemia	259

Notes

Human Cytogenetic Registries	177
--	-----

Erratum

Schwanitz, G., Reither, M., Grosse, G., Hägele, C., Grosse, K.-P., Gutfried, U.: Partial Monosomy 13 as the Result of a Balanced Translocation 3/13 pat. Humangenetik 28, 93—96 (1975)	354
--	-----